

# **Sensor Driven Computations for Emergency Response: FireGRID**

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## **Abstract**

In the process of developing tools that will serve to assist emergency responders in the event of a fire is necessary to take into account the following issues:

- The output of the tools has to be achieved in super real time, i.e. have forecast capabilities
- The output has to consist of simple and informative instructions
- Emergency responders have to trust the output of the tools, i.e. robustness
- Training practices of emergency responders, designers and emergency managers have to include these tools.

This presentation will describe FireGRID: A project funded by the Department of Trade and Industry (UK) that has as main objective to develop a tool to assist emergency response in the event of a fire. The super real time and robustness requirements will be met by means of sensor driven computations using the GRID. Artificial intelligence techniques will be used to transform the complex output of the computations into command control decisions. Pre-analyzed scenarios and testing data (i.e. demonstrators) will be used to transform FireGRID into an educational tool.